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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,276	08/18/2003	Chong H. Lee	174/212 Cont.	4060
36981 7:	590 06/01/2004		EXAMINER	
FISH & NEAVE			LE, DON P	
1251 AVENUE	E OF THE AMERICAS			and the
50TH FLOOR			ART UNIT	PAPER NUMBER
NEW YORK,	NY 10020-1105		2819	
* *			DATE MAILED: 06/01/200-	4 .

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
057	10/643,276	LEE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Don P Le	2819	pi		
The MAILING DATE of this communication app Period for Reply	pears n the cover sheet with the	correspondence addre	ss		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a reply of If NO period for reply is specified above, the maximum statutory period was reply to reply within the set or extended period for reply will, by statute, any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a RANDONE.	mely filed  ys will be considered timely.  The mailing date of this committee of the commit	unication.		
Status			•		
1) Responsive to communication(s) filed on 12 De	ecember 2003.		•		
	action is non-final.				
3) Since this application is in condition for allowar closed in accordance with the practice under E	nce except for formal matters, pro		erits is		
Disposition of Claims	,				
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.		•			
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>9-16</u> is/are allowed.					
6) Claim(s) <u>1-3</u> is/are rejected.					
7) Claim(s) <u>4-8</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner	•				
10) The drawing(s) filed on is/are: a) acce		Examiner			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction			.121(d).		
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-1	152.		
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	)-(d) or (f).			
1. Certified copies of the priority documents	have been received.				
<ol><li>Certified copies of the priority documents</li></ol>		on No			
<ol><li>Copies of the certified copies of the priori</li></ol>			ge		
application from the International Bureau		•			
* See the attached detailed Office action for a list of	of the certified copies not receive	ed.			
		*			
Attachment(s)	Ė	•			
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)  Interview Summary Paper No(s)/Mail Da	(PTO-413)			
Paper No(s)/Mail Date 12/12/2003.	5) Notice of Informal P	atent Application (PTO-152	<b>!)</b>		
Patent and Trademark Office	- <del> </del>				

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## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Raza et al.
   (US 6,510,487). Figure 2 of Raza discloses a programmable logic device, comprising:
   Programmable logic circuitry (24');

High speed serial interface circuitry (circuit providing data to 32), portions of which can be selectively be coupled to portions of the programmable logic circuitry; and

A plurality of channels of functional subcircuits (16', 18', 20', 22')) for selectively coupling portions of the programmable logic circuit and portions of the high speed serial interface circuitry.

3. Claims 2 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Kean et al. (US 5,737,235).

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4. With respect to claim 2, figures 5-18 of Kean teach a programmable logic device, comprising:

Programmable logic circuitry (39);

Serial interface circuit for converting a serial data input signal to a plurality of parallel signals (see column 5, lines 1-25); and

Pattern detection circuitry for detecting byte boundaries of the parallel signals (see, figure 14, this is inherent in the circuit of Kean, otherwise Kean can not change serial data to parallel data, Kean must know when the data start and stop).

5. With respect to claim 3, it is inherent that there must be a circuitry to send parallel signals to other circuitry.

## Allowable Subject Matter

- 6. Claims 9-16 are allowed.
- 7. Claims 4-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is an examiner's statement of reasons for allowance:

With respect to claim 4, the prior art does not teach a circuitry for applying applies information between two adjacent byte boundaries.

With respect to claims 5 and 6, the prior art does not teach pattern detection circuitry is programmable with respect to what pattern is detected.

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With respect to claim 7, the prior art does not teach circuitry for selectively applying information from the parallel signals to the programmable logic circuitry without regard for the bytes boundaries.

With respect to claim 9, the prior art does not teach channel alignment circuitry for synchronizing data in that serial interface circuit with data in a second of the serial interface circuits.

With respect to claim 13, the prior art does not teach a ten bit to eight bit decoder circuitry for converting information from ten bit of the parallel signals to eight further parallel signals.

With respect to claim 16, the prior art does not teach a rate matching circuitry.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Don P Le whose telephone number is 703-308-4890. The examiner can normally be reached on 7AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J Tokar can be reached on 703-305-3493. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

5/22/2004

DON LE